

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2021/0208153 A1 SZEWCZAK et al.

Jul. 8, 2021 (43) **Pub. Date:**

(54) METHODS OF SCREENING FOR CONDENSATE-ASSOCIATED SPECIFICITY AND USES THEREOF

(71) Applicant: c/o Dewpoint Therapeutics, Inc.,

Boston, MA (US)

(72) Inventors: Alexander SZEWCZAK, Needham,

MA (US); Ina POSER, Dresden (DE); Mark Andrew MURCKO, Holliston, MA (US); Stephen Paul HALE, Belmont, MA (US); Bruce Aaron BEUTEL, Needham, MA (US)

(21) Appl. No.: 17/203,005

(22) Filed: Mar. 16, 2021

Related U.S. Application Data

- Continuation of application No. PCT/US2020/ 051331, filed on Sep. 17, 2020.
- (60) Provisional application No. 62/902,316, filed on Sep. 18, 2019.

Publication Classification

(51) Int. Cl. G01N 33/68 (2006.01)G01N 33/58 (2006.01)G01N 33/60 (2006.01)(2006.01)G01N 33/50

(52) U.S. Cl.

CPC G01N 33/68 (2013.01); G01N 33/582 (2013.01); G01N 2496/00 (2013.01); G01N 33/5005 (2013.01); G01N 33/60 (2013.01)

(57)ABSTRACT

Methods of identifying a compound, such as a test compound, and applications thereof are provided. For example, methods of identifying a compound that preferentially affects, increases, or decreases a level of association of a macromolecule with one or more target condensates or methods of identifying a compound that preferentially causes a macromolecule to associate or disassociate with one or more target condensates are provided. Additionally, methods of designing and/or identifying and/or making a compound, or portion thereof, with a desired characteristic are provided.

